



South Coast Air Quality Management District

South Coast
AQMD

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March 8, 2016
via electronic submittal

Mr. Gerardo Rios
Chief, Permits Office
U.S. EPA, Region IX, Mail Stop AIR-3
75 Hawthorne St.
San Francisco, CA 94105

SUBJECT: Proposed Significant Revisions to the Title V Facility Permits for Tesoro Refining & Marketing Co. LLC

Dear Mr. Rios:

Enclosed for your 45-day review are the proposed revisions to the Title V facility permits for Tesoro Refining & Marketing Co. LLC (Tesoro) located at the two contiguous sites shown below:

- (1) Carson Site: Los Angeles Refinery—Carson Operations
2350 E. 223rd Street, Carson, CA 90810
- (2) Wilmington Site: Los Angeles Refinery—Wilmington Operations
2101 East Pacific Coast Highway, Wilmington, CA 90744

The Carson site's Title V permit was renewed on January 29, 2016, and the Wilmington site's Title V permit was renewed on June 2, 2015. The revisions proposed under applications A/N 567617 and 567642 are Significant Revisions of the Title V permits.

The South Coast Air Quality Management District (SCAQMD) has received applications for Permits to Construct from Tesoro for the equipment described in tables below. The SCAQMD has evaluated the applications and has made a preliminary determination that the equipment will operate in compliance with all of the applicable requirements of our rules and regulations. The revised portions of the permits and our evaluation reports are attached for your review.

TABLE 1: Applications Submitted for Carson Site

Application No.	Equipment	Description
567643	No. 51 Vacuum Distillation Unit	Modifications to diesel collection trays by installing of a new 16-inch nozzle and replacing the top six layers of Diesel PA Bed Packing; additions of new heat exchangers, strainers and electric pumps.
567645	No. 1 Light Hydrotreating Unit	Modifications to Stabilizer Column RPV 3012, Stabilizer Reboiler RPV 3011, Overhead Accumulator RPV 3013, heat exchangers and feed pumps; additions of a stabilizer product coalesce, condensers and heat exchangers, and connecting a pressure safety valve to gas recovery system controlled by the Hydrocracker Flare.
567646	Naphtha HDS Unit	Modifications by re-purposing equipment currently

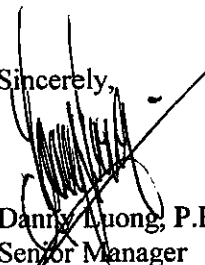
Application No.	Equipment	Description
		in service in the Iso-Octene Unit for service in the Naphtha Hydrodesulfurization Unit; additions of heat exchangers and condensate pumps, and connecting pressure safety valves to gas recovery system controlled by the No. 5 Flare.
567647	C4 Alkylation Unit	Modifications by installing a new Amylene Feed Coalescer (RW 7184-289.02), heat exchangers and pumps; and re-traying Debutanizer Tower (RPV-843) with newly designed trays, and connecting a pressure safety valve to gas recovery system controlled by the South Area Flare.
567648	LPG Railcar Loading/Unloading Rack	Modifications by installing a surge drum, a knockout pot, a vaporizer and pumps and connecting a pressure safety valves to gas recovery system controlled by the No. 5 Flare.
567649	No. 51 Vacuum Unit Heater	Change of equipment description for No. 51 Vacuum Unit Heater to increase the heat input rating from 300 MMBtu/hr to 360 MMBtu/hr, with no physical modification.
575837	Refinery Interconnection System	New construction of an above-ground and underground pipe bundle to connect the operations between the Carson and Wilmington sites. New pressure safety valves will be connected to gas recovery system controlled by the South Area Flare.
575838	Iso-Octene System	Modifications by removing several vessels and repurposing them to serve the Naphtha Hydrodesulfurization Unit.
575839	No. 5 Flare System	Modifications to allow new connections of pressure safety valves serving the LPG Railcar Loading/Unloading Rack, Alkylation Unit and Naphtha HDS Unit.
575840	Hydrocracker Flare System	Modifications to allow a new connection of a pressure safety valve serving the No. 1 Light Hydrotreating Unit.
575841	South Area Flare System	Modifications to allow new connections of pressure safety valves serving the Alkylation Unit and new Refinery Interconnection System.
578248	Mid Barrel Desulfurizer Unit	Modification by installing "jump over" piping from the No. 1 Light Hydrotreating Unit to the Mid-Barrel Desulfurizer Unit
578249	Hydrocracker Unit – Fractionation Section	Modification by installing new heat exchangers and pumps to improve the heat recovery from jet fuel products and to better cool the fractionator bottoms.

TABLE 2: Applications Submitted for Wilmington Site

Application No.	Equipment	Description
567439	DCU Heater H-100 Heater	Change of equipment description for Delayed Coker Unit Heater H-100 to increase the heat input rating from 252 MMBtu/hr to 302.4 MMBtu/hr, with no physical modification
567619	Hydrodesulfurization Unit No. 4	Modifications by replacing trays and repurposing column stripper V-867, and installing new nozzles, flow distributors, and several trays on the fractionator V-1757, a new surge drum (V-3615) and a new salt dryer (V-3618), pumps and heat exchangers, and connecting pressure safety valves to gas recovery system controlled by the Flare System.
575874	Refinery Interconnection System	New construction of an above-ground and underground pipe bundle to connect the operations between the Carson and Wilmington sites
575875	Flare System	Modifications to allow new connections of pressure safety valves serving Hydrotreater Unit No. 4 and the Hydrocracking Unit.
575876	Hydrocracking Unit	Modifications by replacing Charge Coalescer Vessels V-1088 and the bottom fourteen trays of Fractionator Tower V-1001 with new units, upgrading Reactor V-993, High Pressure Separator Vessel V-997, Fractionator Reboiler Pump P-1393 and heat exchangers; additions of two makeup hydrogen booster compressors, a 1st stage charge pump and heat exchangers, and connecting pressure safety valves gas recovery system controlled by to the Flare System.

This letter is being sent to you via email in order to facilitate your review. If you have any questions or wish to provide comments regarding this project, please contact the senior engineers, Mr. Khang Nguyen, at (909) 396-3210 (knguyen@aqmd.gov) or Mr. Bhaskar Chandan at (909) 396-3902 (bchandan@aqmd.gov).

Sincerely,


 Danny Luong, P.E.
 Senior Manager
 RECLAIM Admin., Refinery Permitting
 Retail Gasoline Dispensing

Enclosures

cc w/o enclosures:

June Christman, Tesoro Refining & Marketing Co. LLC